



wherein R₁ and R₃ are the same or different groups and are independently selected from the naphthalene dicarboxylate derivative repeating unit (I), a hydrogen radical and a methyl radical. R₂ is an alkylene radical having 1 to 6 carbon atoms; n is from 10 to 200. Also contemplated are implantable prostheses that are flat constructions useful as patches and filters or tubular constructions useful as vascular grafts. A further aspect of this invention provides a method for making a radiation and thermal resistant and hydrolytically stable, steam sterilizable biocompatible prosthesis.